

CA20N
ED 41
-67FS1



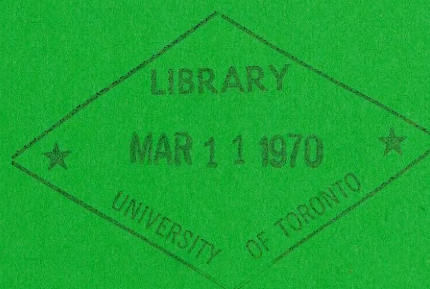
3 1761 11893558 4



ONTARIO

FOLDING CARTON AND SET-UP BOXES INDUSTRY

CENSUS OF MANUFACTURES 1967



ONTARIO STATISTICAL CENTRE
ECONOMIC AND STATISTICAL SERVICES DIVISION
DEPARTMENT OF TREASURY AND ECONOMICS

Hon. Charles S. MacNaughton,
Treasurer of Ontario and Minister of Economics

H. Ian Macdonald,
Deputy Minister



CENSUS OF MANUFACTURES

1967

DEPARTMENT OF TREASURY AND ECONOMICS

**Hon. Charles S. MacNaughton,
Treasurer of Ontario and Minister of Economics**

**H. Ian Macdonald,
Deputy Minister**

**January
1970**

**Catalogue
No. 5-2731**

FOLDING CARTON AND SET-UP BOXES INDUSTRY

CONTENTS

	Page
Symbols and Notes	2
Introduction	3
TABLE 1 Principal Statistics, Ontario and Canada, 1965 to 1967	5
2 Fuel and Electricity Used in Manufacturing Activity, Ontario, 1966 and 1967	6
3 Materials and Supplies Used, Ontario, 1966 and 1967	7
4 Shipments of Goods, Ontario, 1966 and 1967	9
5 Employment and Payroll, Ontario, 1966 and 1967	11
6 Monthly Production Employees in Manufacturing Activity, Ontario, 1966 and 1967	11
7 Calculation of Input, Output and Value Added, Ontario, 1966 and 1967	12
8 Inventories, Ontario, 1966 and 1967	13
9 Man-Hours, Manufacturing Activity, Ontario, 1966 and 1967	13
List of Establishments, Ontario, 1967	14
APPENDIX Concepts and Definitions	i-vii

SYMBOLS

- * Confidential
- S Suppressed to protect confidential items
- Nil or Zero
- Amount too small to be expressed
- .. Figures not available
- ... Figures not appropriate or not applicable
- () Figures within brackets are negative

NOTES

1. Figures may not add to the total because of rounding.
2. To ensure confidentiality, confidential items are either combined with other items or suppressed.
3. If an item is combined with other items, this is indicated by brackets or by footnotes.
4. Where a confidential item cannot be meaningfully combined with other items, the confidential item is suppressed by placing an asterisk instead of the actual figure, and the confidential item lumped with "All others".

INTRODUCTION

This report is one of a series designed to provide information on industries and products covered in the 1966 and 1967 Census of Manufactures. The collection of manufacturing data by the Ontario Statistical Centre is carried out under a statistical arrangement negotiated with the Dominion Bureau of Statistics in accordance with the provisions of the Federal and Provincial Statistics Acts.

The use of the same questionnaire as the Dominion Bureau of Statistics provides for comparability of national and provincial manufacturing statistics. In a few cases, there may be slight variances between the statistics published by the Ontario Statistical Centre and the Dominion Bureau of Statistics. These are mainly due to different interpretations in editing and may also be the result of estimating outstanding questionnaires. As new information becomes available, the statistics may be revised.

The classification of establishments included in this report is based upon the definitions embodied in the Dominion Bureau of Statistics Standard Industrial Classification. "Concepts and Definitions" notes prepared by the Dominion Bureau of Statistics for the Census of Manufactures are included in this report.

All correspondence concerning this report should be directed to the Ontario Statistical Centre.

The Folding Cartons and Set-up Boxes industry includes establishments primarily engaged in manufacturing folding or set-up paper or paperboard boxes, fibre containers and paperboard containers not elsewhere classified.

The main products of this industry are folding cartons, set-up boxes, round fibre or paperboard containers and paperboard milk bottles.

For 1967, the value of shipments of goods of own manufacture in Ontario was \$97 million, an increase of 1 per cent to that of 1966. Ontario's shipments represented 60 per cent of the total Canadian shipments. The closing inventories of finished goods showed an increase of 5 per cent over 1966. Meanwhile the costs of materials, fuel and electricity decreased by 2 per cent from 1966. Average production employment in manufacturing activities reported a decrease of 5 per cent from 1966. Value added by manufacture amounted to \$41 million, an increase of 2 per cent over 1966. Value added for total activity increased also by 2 per cent.

TABLE 1

PRINCIPAL STATISTICS, ONTARIO AND CANADA, 1965 TO 1967

Year	Establishments	Manufacturing Activities							Total Activities				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value ¹ added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
			'000				\$'000		\$'000				\$'000
Ontario 1965	67	3,900	8,273	16,269	654	51,189	88,370	36,998	*	*	4,976	23,269	37,404
1966	67	3,927	8,368	17,276	723	56,682	96,011	40,191	*	*	5,012	24,777	40,420
1967	65	3,735	7,943	17,380	742	55,492	96,994	40,998	*	*	4,812	25,418	41,217
Canada ² 1965	121	6,566	13,843	26,679	1,048	82,448	143,876	61,488	17	81	8,229	37,483	61,872
1966	121	6,592	14,064	28,504	1,145	91,284	156,685	66,422	14	69	8,269	39,963	66,730
1967	119	6,440	13,610	29,467	1,183	91,847	161,546	69,091	12	50	8,126	41,982	69,488
Ontario/Canada ratio (%) 1967	55	58	58	59	63	60	60	59	59	61	59

¹ "Value Added by Manufacture" is computed from value of shipments plus the net change in inventories of finished goods and goods in process, less cost of materials, fuel and electricity.

² As published by DBS.

TABLE 2

FUEL AND ELECTRICITY USED IN MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Cost	Quantity	Cost
1. Large establishments reporting commodity detail:			\$'000		\$'000
Bituminous coal	Ton	386	6	266	4
(a) From Canadian mines	"	7,553	87	7,519	92
(b) Imported	"	-	-	-	-
Sub-bituminous coal (from Alberta mines only)	"	-	-	-	-
Anthracite coal	"	-	-	-	-
Lignite coal	"	-	-	-	-
Coke	"	-	-	-	-
Gasoline	Imp. gal.	210,445	91	200,894	90
Fuel oil including kerosene or coal oil	" "	843,551	84	818,760	83
Wood	Cord	-	-	-	-
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	29,435	7	31,680	8
(b) Other manufactured gas	M. Cu.ft.	-	-	-	-
(c) Natural gas	"	65,793	67	79,721	78
Other fuel		-	-	-	-
Electricity purchased	Kwh.	28,954,588	294	29,056,274	296
Steam purchased	Pound	324,000	--	391,000	--
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity		...	87	...	90
3. All establishments:					
TOTAL FUEL AND ELECTRICITY USED		...	723	...	742

TABLE 3

MATERIALS AND SUPPLIES USED, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Cost \$'000	Quantity	Cost \$'000
A. MANUFACTURING ACTIVITY					
1. Materials used:					
Boxboard for folding boxes and cartons	Ton	161,956	32,549	147,028	31,856
Boxboard for set-up boxes	"	11,396	1,573	9,719	1,419
Paperboard (corrugating paper, chip board for solid fibreboard boxes, double faced sheets, and all other paperboard)					
Cover and fancy paper	1b.	1,105,449	2,701	916,983	2,509
Kraft paper and other wrapping paper	Ton	3,789	483	4,242	405
All other papers (Glassine paper, Greaseproof paper, Book paper, etc.)			907		961
Cellulosic plastic film	1b.	11,470,511	2,288	6,180,875	1,458
Polyethylene, polyester and other plastic film sheet or tubing		161,630	142	117,626	101
Gummed tape, Kraft	"	61,587	76	55,000	71
Gummed tape, other paper	"	226,065	63	229,547	69
Adhesives, all kinds	"	12,105	9	24,192	11
Paraffin and other wax	"	4,472,482	750	3,379,823	718
Die board			468		369
Die rule	"		45		33
Twine	"	11,274	84	11,621	75
Printing plates			6		6
Electrotypes			546		544
Ink	"	1,048,341	346	1,226,474	369
All other materials and components			1,902		1,942
			6,038		6,644

Table 3 - Materials and Supplies Used, Ontario, 1966 and 1967 - continued

Description	Unit	1966		1967	
		Quantity	Cost \$'000	Quantity	Cost \$'000
2. Containers and other packaging materials and supplies used: Corrugated boxes Wrapping paper, all kinds All other containers and packaging materials	ton	242	1,361 59	220	1,478 56
3. Operating, maintenance and repair supplies used		...	187	...	143
4. Amount paid out to others for work done on materials owned by establishments		...	1,661	...	1,674
TOTAL		...	2,439	...	2,584
B. NON-MANUFACTURING ACTIVITY		...	56,682	...	55,492
1. Purchase of goods for resale in same condition as purchased		...	2,852	...	2,574
2. All other materials and supplies used		...	265	...	260
TOTAL		...	3,117	...	2,834
C. TOTAL INPUT OF MANUFACTURING AND NON-MANUFACTURING ACTIVITIES		...	59,799	...	58,326

TABLE 4

SHIPMENTS OF GOODS, ONTARIO, 1966 AND 1967

Description	Unit	1966		1967	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
A. MANUFACTURING ACTIVITY					
1. Products shipped:					
Folding boxes and cartons		...	63,196	...	63,576
Egg cartons, paperboard		...	1,601	...	1,601
Set-up boxes		...	8,308	...	8,140
Round fibre or paperboard containers, paper or metal ends					
Tags, shipping and merchandise (including pin tickets and labels)	Number	82,273,386	4,188	79,694,160	4,262
Waste paper		...	2,986	...	3,132
Shipping and distribution containers and closures (paper containers, corrugated or solid fibreboard boxes and cartons, Bags: paper and plastic, milk bottles and milk bottles caps, etc.)	Ton	13,771	276	14,143	250
All other materials and components		...	10,269	...	11,936
		...	5,094	...	5,419
2. Amount received in payment for work done on materials and products owned by others		...	783	...	846

¹ Included in "Shipping and distribution containers and closures".

Table 4 - Shipments of Goods, Ontario, 1966 and 1967 - continued

Description	Unit	1966		1967	
		Quantity	Value \$'000	Quantity	Value \$'000
3. LESS adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		...	689	...	567
TOTAL ADJUSTED VALUE OF SHIPMENTS AND WORK DONE		...	<u>96,011</u>	...	<u>96,994</u>
B. NON-MANUFACTURING ACTIVITY					
1. Shipments of goods purchased and sold in same condition as purchased		...	3,323	...	2,907
2. Other revenues		...	5	...	140
TOTAL		...	<u>3,328</u>	...	<u>3,047</u>
C. TOTAL OUTPUT OF MANUFACTURING AND NON-MANUFACTURING ACTIVITIES		...	<u>99,339</u>	...	<u>100,041</u>

TABLE 5

EMPLOYMENT AND PAYROLL, ONTARIO, 1966 AND 1967

Employees	1966				1967			
	Male	Female	Total	Salaries and wages	Male	Female	Total	Salaries and wages
	Number			\$'000	Number			\$'000
Production and related workers								
Manufacturing	2,659	1,268	3,927	17,276	2,525	1,210	3,735	17,380
Others	1	8	9	25	1	8	9	26
Administrative and office	494	291	785	4,964	484	280	764	5,276
Sales and distribution	257	34	291	2,512	263	41	304	2,736
TOTAL EMPLOYEES	3,411	1,601	5,012	24,777	3,273	1,539	4,812	25,418

TABLE 6

MONTHLY PRODUCTION EMPLOYEES IN MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Month	1966			1967		
	Male	Female	Total	Male	Female	Total
Establishments reporting monthly detail (large establishments only):	Number					
January	2,457	1,014	3,471	2,300	912	3,212
February	2,463	1,034	3,497	2,320	902	3,222
March	2,441	1,022	3,463	2,311	912	3,223
April	2,495	1,048	3,543	2,310	904	3,214
May	2,484	1,044	3,528	2,341	934	3,275
June	2,561	1,097	3,658	2,358	939	3,297
July	2,523	1,071	3,594	2,256	924	3,180
August	2,494	1,080	3,574	2,333	951	3,284
September	2,479	1,061	3,540	2,282	974	3,256
October	2,457	1,080	3,537	2,310	976	3,286
November	2,457	1,069	3,526	2,325	990	3,315
December	2,394	1,003	3,397	2,344	880	3,224
Averages	2,475	1,052	3,527	2,316	933	3,249
Small establishments reporting annual averages	184	216	400	209	277	486
AVERAGE FOR ALL ESTABLISHMENTS	2,659	1,268	3,927	2,525	1,210	3,735

TABLE 7

CALCULATION OF INPUT, OUTPUT AND VALUE ADDED, ONTARIO, 1966 AND 1967

Description	1966		1967	
	Manufacturing activity	Non manufacturing activity	Total	Total
\$'000				
OUTPUT				
1 Shipments and other revenue	96,011	3,328	99,339	100,041
Inventories - Goods of own manufacture:				
Add closing	4,259	...	4,259	4,027
- Goods in process	9,279	...	9,279	9,590
- Finished goods	4,072	...	4,072	4,200
Deduct opening	7,881	...	7,881	9,179
- Goods in process				
- Finished goods				
2 Net inventory change	1,586	...	1,586	238
3 Gross output (1+2)	97,596	3,328	100,925	100,279
INPUT				
4 Purchases of goods not of own manufacture	...	2,852	2,852	2,574
Inventories - Goods not of own manufacture:				
Add opening	...	103	103	95
Deduct closing	...	121	121	100
5 Cost of goods sold (not of own manufacture)	...	2,834	2,834	2,568
6 Materials, supplies, etc.	56,682	265	56,947	55,752
7 Fuel and electricity	723	...	723	742
8 Gross input (5+6+7)	57,405	3,099	60,504	59,062
9 VALUE ADDED (3-8)	40,191	229	40,420	41,217

TABLE 8
INVENTORIES, ONTARIO, 1966 AND 1967

Inventories	1966		1967	
	Opening	Closing	Opening	Closing
1 Manufacturing	book value \$'000			
Materials, supplies, etc.	5,300	5,422	5,421	5,495
Goods in process	4,072	4,259	4,200	4,027
Finished goods of own manufacture	7,881	9,279	9,179	9,590
TOTALS	17,252	18,960	18,800	19,112
2 Non-manufacturing	103	121	95	100
Products or materials purchased for resale	21	22	17	13
3 TOTAL INVENTORIES	17,376	19,103	18,911	19,225

NOTE: Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

TABLE 9
MAN-HOURS, MANUFACTURING ACTIVITY, ONTARIO, 1966 AND 1967

Man-Hours	1966	1967
	Number	
Total man-hours worked in all manufacturing operations	7,111,095	6,520,094
Total man-hours not worked, but nevertheless paid (e.g. paid vacation, sick leave, statutory holidays, etc.)	1,257,402	1,423,396
TOTAL MAN-HOURS PAID	8,368,497	7,943,490

Folding Cartons and
Set-up Boxes Industry

LIST OF ESTABLISHMENTS, ONTARIO, 1967

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Establishment	Location
A.C.C. Boehmer Ltd.	156 Duke St. W., Kitchener
Abco Box & Carton Co. Ltd.	460 York Road, Guelph
Accurate Rolal Co.	7 Dohme Ave., Toronto
Albany Paper Products Ltd.	21 Colville Rd., Toronto
Anderson, W.J. Co. Ltd., The	600 Euclid St., Whitby
Atlas Folding Boxes (Hamilton) Ltd.	853 Woodward Ave., Hamilton
Artistic Packaging Ltd.	270 Grand River Ave., Brantford
Baird & Montgomery Limited	3543 Danforth Ave., Scarborough
Bell Paper Box Co. Ltd.	11 Federal St., Toronto
Beresford Box Co. Ltd.	12 Laurel St. E., Waterloo
Bonar & Bemis Ltd.	173 Bartley Dr., North York
Boyd, A.G. Co.	122 King St. E., Toronto
Brantford Paper Box Co. Ltd.	27 Bridge St., Brantford
Canadian Folding Cartons Ltd. (Div. of Sommerville Industries Ltd.)	188 Cartwright Ave., Toronto
Carton & Diecraft Ltd.	350 Emerald St. N., Hamilton
Chant Paper Box Ltd.	445 Nightingale Ave., London
Collet-Sproule Boxes (Div. of Oxford & Paper Boxes Ltd.)	1997 Kennedy Rd., Scarborough
Continental Can Co. of Canada Ltd.	66 Ray Ave., Toronto
Continental Can Co. of Canada Ltd.	1581 Main St. W., Hamilton
Dominion Milton Ltd.	37 Jutland Rd., Toronto
Dominion Paper Box Co. Ltd.	250 Islington Ave. S., Toronto
Domtar Packaging Ltd.	Richmond St., Chatham.

LIST OF ESTABLISHMENTS, ONTARIO, 1967

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Establishment	Location
Domtar Packaging Ltd.	1 Laird Drive, Toronto
Dupont Paper Box Ltd.	1244 Dufferin St., Toronto
Elvidge Paper Box Co. Ltd.	124 Portland St., Etobicoke
Federal Packaging & Partitions Co. Ltd.	516 Finley Ave., Ajax
Fielder Paper Box Co. Ltd., The	32 Logan Ave., Toronto
Frontenac Paper Box Co. Ltd., The	Lewis St., Perth
Galt Paper Box Ltd., The	49 King St., Galt
Guelph Paper Box Co. Ltd.	69 Huron St., Guelph
Hamilton Paper Box Co. Ltd.	Durham Rd., Grimsby
Higgs Paper Box Co. Ltd.	1 Phoebe St., Toronto
Holway Paper Box Mfg. Ltd.	245 Carlaw Ave., Toronto
Howell Litho & Cartons Ltd.	79 East Don Roadway, Toronto
Howell Litho & Cartons Ltd.	3230 Mainway Ave., Burlington
Ingersoll Paper Box Co. Ltd.	327 King St. W., Ingersoll
Jones Box & Label Co. Ltd.	1173 Dundas St. E., London
Lakeshore Paper Products Ltd.	121 McCormack St., Toronto
Lawson & Jones (Toronto) (Div. of Oxford Paper Boxes Ltd.)	3620 Lakeshore Blvd. W., Etobicoke
Lindsay Paper Box Co. Ltd., The	5 Bond St., Lindsay
Long, A.E. & Co. Ltd.	32 Granfield Rd., Toronto
Marathon Packages of Canada Ltd.	228 Queen St. W., Brampton
Mumby Box Co.	R.R. #6, Dunnville
Niagara Paper Box Co. Ltd.	212 Park St., Niagara Falls

LIST OF ESTABLISHMENTS, ONTARIO, 1967

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Establishment	Location
Nor Baker Ltd.	7 Fraser Ave., Toronto
Ontario Paper Box Mfg. Co. Ltd.	118 Sherbourne St., Toronto
Package Master Ltd.	281 Fairall St., Ajax
Paperboard Boxes Ltd.	853 Woodward Ave., Hamilton
Post Paper Box Ltd.	189 Edward St., Aurora
Progress Paper Box Co. Ltd.	25 Tangiers Rd., Downsview
Reid Press Ltd.	Cavell Ave., Hamilton
Reliable Die Ltd.	241 Carlaw Ave., Toronto
Sealright Canada Ltd.	25 Aylmer St., Peterborough
Sommerville Industries Ltd.	Crumlin
Tamblyn, Robt., G. Paper Box Ltd.	58 Scarsdale Rd., Don Mills
Telfer Paper Box Co. Ltd., The	1845 Birchmount Rd., Scarborough
Thompson Paper Box Co. Ltd.	44 Norwood Terrace, Toronto
Toronto Carton Co. Ltd.	44 Rolark Dr., Scarborough
Toronto Packaging Ltd.	44 Rolark Dr., Scarborough
Tresidder & Reid Paper Box Ltd.	54 Burland Cres., Hamilton
Veribest Products Ltd.	65 Shaw St., Hamilton
Wall, Roy Wilfred	360 Montreal Rd., Vanier City
Wright Folding Box Ltd.	MacNab St., Dundas
York Paper Box Co. Ltd.	677 Dundas St., Woodstock

CONCEPTS AND DEFINITIONS

ESTABLISHMENT

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

Materials and supplies used
Goods purchased for resale as such
Fuel and power consumed
Number of employees and salaries and wages
Man-hours worked and paid
Inventories
Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

HEAD OFFICES AND AUXILIARY UNITS

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

EMPLOYEES

(a) Production and related workers - Manufacturing activities

In addition to those engaged in production and assembling activities, production and related workers in manufacturing activities include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of the establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.) Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated. In reporting overtime hours, respondents are requested to report only hours actually at work.

(b) Production and related workers - Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

WORKING OWNERS OR PARTNERS

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

SALARIES AND WAGES

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness,

accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for overtime are included. Figures on salaries and wages refer to the calendar year.

FUEL AND ELECTRICITY

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. Any fuel and electricity produced by establishments for internal consumption are not included in the total cost. Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

MATERIALS AND SUPPLIES

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items of physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

SHIPMENTS

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book of value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

INVENTORIES

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payments accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for resale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

VALUE ADDED

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for resale (adjusted for changes in the value of inventories of goods purchased for resale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(c) By total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production.

PUBLICATIONS

This publication is prepared annually by the Ontario Statistical Centre of the Economic and Statistical Services Division, Department of Treasury and Economics. In addition to this report, annual statistics are published on other manufacturing industries. Publications listed below can be obtained from the Ontario Statistical Centre, Queen's Park, Toronto, Canada.

Catalogue Number	Industry Title
5-1280	Biscuit Manufacturers
5-1430	Distilleries
5-1450	Breweries
5-1470	Wineries
5-1510	Leaf Tobacco Processors
5-1530	Tobacco Products Manufacturers
5-2130	Cordage and Twine Industry
5-2480	Foundation Garment Industry
5-2580	Coffin and Casket Industry
5-2720	Asphalt Roofing Manufacturers
5-2732	Manufacturers of Corrugated Boxes
5-2910	Iron and Steel Mills
5-2920	Steel Pipe and Tube Mills
5-3230	Motor Vehicle Manufacturers
5-3260	Railroad Rolling Stock Industry
5-3651	Petroleum Refining Industry
5-3652	Manufacturers of Lubricating Oils and Greases

